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RECEIVED

<110> Podolsky, Daniel K.

<120> Intestinal Trefoil Proteins

<130> 50206/432001

<140> US 09/313,434

<141> 1999-05-17

<150> US 08/631,469

<151> 1996-04-12

<150> US 08/191,352

<151> 1994-02-02

<150> US 08/037,741

<151> 1993-03-25

<150> US 07/837,192

<151> 1992-02-13

<150> US 07/655,965

<151> 1991-02-14

<160> 21

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<210> 1

<211> 431

<212> DNA

<213> Rattus norvegicus

<220>

<221> CDS

<222> (18)...(260)

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Met Glu Thr Arg Ala Phe Trp Ile Thr Leu Leu
1 5 10

ctg gtc ctg gtt gct ggg tcc tcc tgc aaa gcc cag gaa ttt gtt ggc 98
Leu Val Leu Val Ala Gly Ser Ser Cys Lys Ala Gln Glu Phe Val Gly
15 20 25

cta tct cca agc caa tgt atg gcg cca aca aat gtc agg gtg gac tgt 146
Leu Ser Pro Ser Gln Cys Met Ala Pro Thr Asn Val Arg Val Asp Cys
30 35 40

aac tac ccc act gtc aca tca gag cag tgt aac aac cgt ggt tgc tgt 194
Asn Tyr Pro Thr Val Thr Ser Glu Gln Cys Asn Asn Arg Gly Cys Cys
45 50 55

ttt gac tcc agc atc cca aat gtg ccc tgg tgc ttc aaa cct ctg caa 242

Phe Asp Ser Ser Ile Pro Asn Val Pro Trp Cys Phe Lys Pro Leu Gln
60 65 70 75

gag aca gaa tgt aca ttt tgaagctgtc caggctccag gaagggagct 290
Glu Thr Glu Cys Thr Phe
80

ccacaccctg gactcttgct gatggtagtg gccagggta acactcaccc ctgatctgct 350
ccctcgcgcc ggccaatata ggagctggga gtccagaaga ataaagacct tacagtcagc 410
acaaggctgt tctaattgcg g 431

<210> 2
<211> 81
<212> PRT
<213> Rattus norvegicus

<400> 2
Met Glu Thr Arg Ala Phe Trp Ile Thr Leu Leu Leu Val Leu Val Ala
1 5 10 15
Gly Ser Ser Cys Lys Ala Gln Glu Phe Val Gly Leu Ser Pro Ser Gln
20 25 30
Cys Met Ala Pro Thr Asn Val Arg Val Asp Cys Asn Tyr Pro Thr Val
35 40 45
Thr Ser Glu Gln Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Ser Ile
50 55 60
Pro Asn Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Thr Glu Cys Thr
65 70 75 80
Phe

<210> 3
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<223> Oligonucleotide for PCR

<221> CDS
<222> (2)...(223)

<400> 3
g atg ctg ggg ctg gtc ctg gcc ttg ctg tcc tcc agc tct gct gag gag 49
Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu
1 5 10 15
tac gtg ggc ctg tct gca aac cag tgt gcc gtg ccg gcc aag gac agg 97
Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg
20 25 30
gtg gac tgc ggc tac ccc cat gtc acc ccc aag gag tgc aac aac cgg 145
Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg
35 40 45
ggc tgc tgc ttt gac tcc agg atc cct gga gtg cct tgg tgt ttc aag 193
Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys
50 55 60

62

C

ccc ctg cag gaa gca gaa tgc acc ttc tga ggcacctcca gctgcccctg 243
 Pro Leu Gln Glu Ala Glu Cys Thr Phe *
 65 70

ggatgcaggc tgagcaccct tgcccggctg tgattgctgc caggcactgt tcattctcagt 303
 ttttctgtcc ctttgctccc ggcaagcttt ctgctgaaag ttcatactctg gagcctgatg 363
 tcttaacgaa taaaggctccc atgctccacc cgaaaaa 400

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 <212> PRT
 <213> Homo sapiens

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 Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu
 1 5 10 15
 Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg
 20 25 30
 Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg
 35 40 45
 Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys
 50 55 60
 Pro Leu Gln Glu Ala Glu Cys Thr Phe
 65 70

<210> 5
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide for PCR

<400> 5
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<210> 6
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 <213> Artificial Sequence

<220>
 <223> Oligonucleotide for PCR

<400> 6
 gtacattctg tctcttgcag a 21

<210> 7
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide for PCR

<400> 7
 taaccctgct gctgctggtc ctgg 24

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<210> 8
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<212> DNA
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<220>
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<400> 8
gtttgcgtgc tgccatggag a 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide for PCR

<400> 9
ccgcaattag aacagccttg t 21

<210> 10
<211> 25
<212> DNA
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<400> 10
gcagtgtaac aaccgtgggtt gctgc 25

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<400> 11
Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu Arg Gln Asn
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Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn Lys Gly Cys
20 25 30
Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro Asn
35 40 45
Thr Ile Asp Val Pro Pro Glu Glu Glu Cys Glu Phe
50 55 60

<210> 12
<211> 62
<212> PRT
<213> Homo sapiens

<400> 12
Glu Lys Pro Ala Ala Cys Arg Cys Ser Arg Gln Asp Pro Lys Asn Arg
1 5 10 15
Val Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Thr Ser
20 25 30

64

c

Gly Cys Cys Phe Asp Ser Gln Val Pro Gly Val Pro Trp Cys Phe Lys
 35 40 45
 Pro Leu Pro Ala Gln Glu Ser Glu Glu Cys Val Met Glu Val
 50 55 60

<210> 13
 <211> 318
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(318)

<400> 13
 gag aaa ccc tcc ccc tgc cag tgc tcc agg ctg agc ccc cat aac agg 48
 Glu Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg
 1 5 10 15
 acg aac tgc ggc ttc cct gga atc acc agt gac cag tgt ttt gac aat 96
 Thr Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn
 20 25 30
 gga tgc tgt ttc gac tcc agt gtc act ggg gtc ccc tgg tgt ttc cac 144
 Gly Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His
 35 40 45
 ccc ctc cca aag caa gag tcg gat cag tgc gtc atg gag gtc tca gac 192
 Pro Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp
 50 55 60
 aga aga aac tgt ggc tac ccg ggc atc agc ccc gag gaa tgc gcc tct 240
 Arg Arg Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser
 65 70 75 80
 cgg aag tgc tgc ttc tcc aac ttc atc ttt gaa gtg ccc tgg tgc ttc 288
 Arg Lys Cys Cys Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe
 85 90 95
 ttc ccg aac tct gtg gaa gac tgc cat tac 318
 Phe Pro Asn Ser Val Glu Asp Cys His Tyr
 100 105

<210> 14
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 14
 Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg Thr
 1 5 10 15
 Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn Gly
 20 25 30
 Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His Pro
 35 40 45
 Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp Arg
 50 55 60

65

d

Val	Ala	Pro	Arg	Glu	Arg	Gln	Asn	Cys	Gly	Phe	Pro	Gly	Val	Thr	Pro
		35					40					45			
Ser	Gln	Cys	Ala	Asn	Lys	Gly	Cys	Cys	Phe	Asp	Asp	Thr	Val	Arg	Gly
	50					55				60					
Val	Pro	Trp	Cys	Phe	Tyr	Pro	Asn	Thr	Ile	Asp	Val	Pro	Pro	Glu	Glu
65					70					75				80	
Glu	Cys	Glu	Phe												

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 <211> 23
 <212> DNA
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<220>
 <223> Oligonucleotide for PCR

<400> 17
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<210> 18
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<220>
 <223> Oligonucleotide for PCR

<400> 18
 cggctgctct gatggcggcc 20

<210> 19
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 19
 gccggccaca gtcgatgaat c 21

<210> 20
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 <212> DNA
 <213> Artificial Sequence

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<400> 20
 gagaggttg tggtttgatg aca 23

<210> 21
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 <212> DNA
 <213> Artificial Sequence

67

c

<220>

B1 <223> Oligonucleotide for PCR

<400> 21

gccaagtctt gatgtagcca gtt

23

68

C